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Quality Engineering Test Report

SERIES: DKE10A 10W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:	**A:**	**DKE10A-05**	**V1: +5V / 1000mA**
			V2: -5V / 1000mA
	B:	**DKE10A-12**	**V1:+12V / 420mA**
			V2:-12V / 420mA
	C:	**DKE10A-15**	**V1:+15V / 333mA**
			V2:-15V / 333mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 9~18VDC O/P:FULL LOAD	A:7.3~18VDC	P
2	LINE REGULATION	I/P: 9~18VDC SPEC: ±0.3% O/P:FULL LOAD	A: V1: -0% ~ +0% V2: -0.2% ~ +0% B: V1: -0% ~ +0% V2: -0% ~ +0% C: V1: -0.2% ~ +0% V2: -0.1% ~ +0.1%	P
3	LOAD REGULATION	I/P:12VDC SPEC: ±2% O/P:MIN. TO FULL LOAD	A: V1: -0% ~ +0% V2: -0.2% ~ +0% B: V1: -0.1% ~ +0.1% V2: -0.1% ~ +0.1% C: V1: -0.1% ~ +0% V2: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P: 9~18VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A: V1: -2.8% ~ +3.0% V2: -3.0% ~ +2.8% B: V1: -1.6% ~ +1.7% V2: -1.8% ~ +1.5% C: V1: -0.2% ~ +0.1% V2: -0.1% ~ +0.1%	P
5	RIPPLE&NOISE	I/P:12VDC SPEC: A: V1:50mV O/P:FULL LOAD V2:50mV B: V1:60mV V2:60mV C: V1:60mV V2:60mV	A: V1: 18mV V2: 20mV B: V1: 20mV V2: 20mV C: V1: 27mV V2: 25mV	P
6	DC INPUT CURRENT	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:1.05A	P
7	O/P VOLTAGE ACCURACY	I/P:12VDC SPEC: ±2% O/P:MIN. LOAD	A: V1: +1.4% V2: +1.4% B: V1: +0.9% V2: +0.7% C: V1: +0.1% V2: +0.2%	P
8	SET UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:328mS	P
9	EFFICIENCY	I/P:12VDC SPEC: 76% O/P:FULL LOAD	A: 78.9% B: 83.8% C: 83.5%	P

NEXT

<table>
<tr><th>NO</th><th>TEST ITEM</th><th>TEST CONDITION / SPECIFICATION</th><th>RESULT</th><th>VERDICT</th></tr>
<tr><td>10</td><td>OVER LOAD
PROTECTION</td><td>I/P: 12VDC SPEC: NONE
O/P:TESTING</td><td>A:158%
B:174%
C:164%</td><td>P</td></tr>
<tr><td>11</td><td>INSULATION
RESISTANCE</td><td>SPEC:I/P--O/P 500VDC/100M Ohms MIN.</td><td>I/P--O/P >100M Ohms</td><td>P</td></tr>
<tr><td>12</td><td>DIELECTRIC /
WITHSTAND
VOLTAGE</td><td>SPEC: I/P-- O/P: 500VDC/ 1 min
(10mA CUT-OFF)</td><td>I/P--O/P:<0.5mA</td><td>P</td></tr>
<tr><td>13</td><td>BURN-IN TEST</td><td>I/P: 12VDC O/P:FULL LOAD
TA:25°C BURN-IN DURATION : 4 hrs</td><td>A:NO BREAK
B:NO BREAK
C:NO BREAK</td><td>P</td></tr>
<tr><td>14</td><td>TEMPERATURE RISE
TEST T rise OF PARTS</td><td colspan="2">A:I/P :12VDC AFTER 4 hrs BURN-IN
O/P :FULL LOAD TA:25°C
<table>
<tr><th>POSITION</th><th>SAMPLE</th><th>TEMP</th><th>T rise</th></tr>
<tr><td>CASE</td><td>DKE10A-05</td><td>40.9°C</td><td>15.9°C</td></tr>
</table></td><td>P</td></tr>
<tr><td>15</td><td>CONSTRUCTION
INSPECTION
(FOR QC INSPECTION
REFERENCE ONLY)</td><td colspan="2">1. PACKING : 以塑膠泡墊保護PIN腳,再以紙盒包裝
2. MARKING : MODEL LABEL
3. MECHANICAL : SIX-SIDED SHIELD METAL CASE. PIN :1.0 Øx7mm</td><td></td></tr>
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DATE	SAMPLE	TEST RESULT	TEST	APPROVAL
1999.02.12	DKE10A-05 DKE10A-12 DKE10A-15	PASS	T.K.CHENG	MAX LIN

PREVIOUS